

Reference: P14486US
Patent Application: 09/805,657

Amendments in the claims:

1. (Currently Amended) An Intelligent Network Service Control Point (IN-SCP) for providing services to users in a telecommunications network, said IN-SCP comprising:
at least one Call Processing Language (CPL) script that generates a call-control instruction when the script is executed; and
5 means for executing the CPL script in response to receiving a service trigger for the script;
a user database that stores, for a given user, a list of IN service logic and the at least one CPL script that are to be executed for the service trigger received by the IN-SCP; and
a service logic prioritizer that determines an order in which the IN service logic and the
10 CPL script are to be executed.
2. (Original) The IN-SCP of claim 1 wherein the CPL script is defined by the user, and the IN-SCP includes a CPL script interpreter for mapping semantics of the CPL script to IN procedural detection points.
3. (Original) The IN-SCP of claim 2 further comprising at least one block of service provider-defined IN service logic that provides at least one service when executed.
4. (Cancelled)

Reference: P14486US
Patent Application: 09/805,657

5. (Currently Amended) A system in a telecommunications network for providing services to users, said system comprising:

an Intelligent Network Service Control Point (IN-SCP), said IN-SCP comprising:

at least one Call Processing Language (CPL) script that generates a first call-control instruction when executed;

means for executing the CPL script in response to receiving a service trigger for the script; and

communication means for receiving the service trigger from a call server and sending the call-control instruction to the call server;

10 a user database that stores, for at least a given user user, a list of IN service logic and the CPL script that are to be executed for the service trigger that is received by the IN-SCP; and

a service logic prioritizer that determines an order in which the IN service logic and the CPL script are to be executed;

15 a user profile database that stores the service trigger; and

a call server that retrieves the service trigger from the user profile database, sends the service trigger to the IN-SCP, receives the call-control instruction from the IN-SCP, and executes the call-control instruction to provide the service to the user.

6. (Original) The system of claim 5 wherein the CPL script is defined by the user, and the IN-SCP includes a CPL script interpreter for mapping semantics of the CPL script to IN procedural detection points.

7. (Original) The system of claim 6 wherein the IN-SCP also includes at least one block of service provider-defined IN service logic that provides a second call-control instruction when executed.

8. (Cancelled)

Reference: P14486US
Patent Application: 09/805,657

9. (Original) The system of claim 5 wherein the CPL script is defined by the user, and the system further comprises a network administrative entity that verifies the CPL script and sends the verified script to the IN-SCP.

10. (Original) The system of claim 9 wherein the administrative entity also determines the service trigger for the CPL script and sends the service trigger to the user profile database.

11. (Original) A method of provisioning a service in a telecommunications network having an Intelligent Network Service Control Point (IN-SCP), a user profile repository that stores a user profile, and a network Administrative Entity (AE), said method comprising the steps of:

- 5 receiving in the AE, a user-defined Call Processing Language (CPL) script that generates a call-control instruction when the script is executed;
determining by the AE whether the CPL script can be successfully executed in the network; and
upon determining that the CPL script can be successfully executed in the network:
10 modifying the user profile in the user profile repository to include a service trigger for the CPL script; and
storing the verified CPL script in the IN-SCP.

12. (Original) The method of claim 11 further comprising rejecting the script upon determining that the CPL script cannot be successfully executed in the network.

13. (Original) The method of claim 12 further comprising, before the step of determining whether the CPL script can be successfully executed in the network, the step of determining by the AE whether the CPL script is well-formed.

14. (Original) The method of claim 13 further comprising rejecting the script upon determining that the CPL script is not well-formed.

Reference: P14486US
Patent Application: 09/805,657

15. (Original) The method of claim 11 further comprising, upon determining that the CPL script can be successfully executed in the network, modifying the user profile in the user profile repository to include an identification of the IN-SCP where the CPL script is stored.

16. (Currently Amended) A method of providing a service to a user in a telecommunications network having an Intelligent Network Service Control Point (IN-SCP); a user profile repository that stores a user profile, and a call server that controls calls to and from the user, said method comprising the steps of:

- 5 storing a user-defined Call Processing Language (CPL) script in the IN-SCP, said script generating at least one call-control instruction when the script is executed;
receiving in the IN-SCP, a service trigger for the script from the call server;
retrieving a service logic (SL) list from a user database in the IN-SCP; and
prioritizing service logic and the user-defined CPL script;
10 executing the CPL script in response to receiving the service trigger for the script according to a result of the prioritizing;
sending the call-control instruction generated by executing the CPL script to the call server; and
executing the call-control instruction by the call server to provide the service to the
15 user.

17. (Original) The method of claim 16 further comprising, before the step of executing the CPL script, mapping semantics of the CPL script to IN procedural detection points.

18. (Original) The method of claim 17 further comprising the steps of:
determining whether the IN-SCP also stores service provider-defined IN service logic for the user; and
upon determining that the IN-SCP also stores IN service logic for the user, executing
5 the service provider-defined IN service logic before executing the user-defined CPL script.

Reference: P14486US
Patent Application: 09/805,657

19. (Original) The method of claim 18 wherein the call server retrieves user profile information from the user profile repository when the user registers with the network, and the method further comprises, after the step of storing the user-defined CPL script in the IN-SCP, the steps of:

- 5 receiving a call in the call server that is associated with the user;
 determining by the call server whether a service trigger is to be generated; and
 sending a request for call-control instructions from the call server to the IN-SCP, said request including an identification of the user and the service trigger.

20. (Cancelled)

21. The method of claim 20 wherein the step of prioritizing the service provider-defined IN service logic and the user-defined CPL script includes prioritizing the service provider-defined IN service logic and the user-defined CPL script in a Service Interaction Manager (SIM) in the IN-SCP.

22. The method of claim 20 further comprising, after the step of prioritizing the service provider-defined IN service logic and the user-defined CPL script, the steps of:

- determining whether the service provider-defined IN service logic and the user-defined CPL script are consistent; and
5 ignoring the user-defined CPL script if it is inconsistent with the service provider-defined IN service logic.